

KREJCI, M., inz., C.Sc.; CUTA, Frantisek, prof., inz., dr.; JELINEK,  
Jaroslav, inz., dr.

Report on the transactions of the Central Committee of the  
Czechoslovak Chemical Society at its meeting of July 2, 1962.  
Chem listy 57 no.1:104-106 Ja '63.

**"APPROVED FOR RELEASE: Thursday, July 27, 2000**

**CIA-RDP86-00513R00050942**

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CITA, FRANTISEK

Spectrophotometric and colorimetric determination of vitamin A with perchloric acid. Frantisek Čita and Jaroslav Čelinkovsky (Vysoká škola chem., Prague). *Chem. Listy* 48, 1346-50 (1954).—A simple spectrophotometric and colorimetric method for the detn. of vitamin A is based on a color reaction developed by the addn. of 59.1% HClO<sub>4</sub> to a CHCl<sub>3</sub> soln. of vitamin A. The measurements are preceded by centrifugation of a turbidity formed after the addn. of HClO<sub>4</sub>. Absorption max. of the coloration is 5430 Å. For the colorimetric method, a standard prepd. of phenol red at pH 6.4 (max. absorption at 5750 Å.) was used. The presence of vitamin D does not interfere with the detn. of vitamin A. M. Hudlíček

19318. Spectrophotometric and colorimetric determination of vitamin A by means of perchluric acid. P. Ciga and J. Calkovsky (Chem. Listy, 1954, 48, 1348-1349).—The fairly stable blue coloration of absorption max. at 653 mμ, formed when an approx. 50 per cent. soln. of HClO<sub>4</sub> is added to a chloroform soln. of vitamin A, is used as the basis of a simple spectrophotometric and colorimetric determination of the vitamin. The turbidity formed on the addition of the reagent is removed by centrifuging. For the colorimetric determination, an artificial standard is prepared of chlorophenol red in a phosphate buffer of pH 6.4, with an absorption max. at 670 mμ. Vitamin D does not interfere. G. GLASSER

CUTA F

CUTA, F.; STRAFELDA, F.

Electric resistance, salt error, asymmetric potential, hydrogen function, and chemical resistance of Sokolov-Pasynskii glass electrodes. In Russian. p. 67

Vol. 20, no.1, Feb. 1955  
SBORNIK CZECHOSLOVATSKIKH KHMICHESKIKH RABOT  
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

CZECH

Spectrographic determination of small amounts of cobalt  
in nickel salts. Prasticek Cota and Karl Hauser.  
Collection Czechoslov. Chem. Commun. 20, 180-7 (1955) (in  
German).—See C.A. 49, 4446d. B. J. C.

81



CZECH

The second dissociation constant of phosphoric acid between 60 and 90°. František Čížek and Bohumil Polak (Vysoká škola chem.-technol., Prague). Chem. Listy 49, 475-7 (1955). From the pH measurements by means of a glass electrode the 2nd thermodynamic const. of  $H_2PO_4$  at 60, 70, 80, and 90° was detd.:  $6.1 \times 10^{-4}$ ,  $5.83 \times 10^{-4}$ ,  $5.75 \times 10^{-4}$ , and  $5.69 \times 10^{-4}$ , resp. E. Erdős

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CUTA, FRANTISEK

Czechoslovakia/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61879

Author: Cuta, Frantisek; Ksandr, Zbynek; Hejtmanek, Milos

Institution: None

Title: Potentiometric and Conductimetric Titration of Free Acid and Acid Liberated from Nickel Salt on Hydrolysis at High Temperature

Original

Periodical: Potenciometricka a konduktometricka titrace kyselin volnych a hydrol-ysou odstepenych z nikelnatych soli za vyssich teplot, Chem. listy, 1954, 48, No 9, 1341-1345; Czech; Sb. chekhosl. khim. rabot, 1955, 20, No 2, 381-386; Russian; German resumé

Abstract: A low temperature free acid is titrated in presence of Ni salt by potentiometric or conductimetric method. On titration of  $\text{Ni}(\text{ClO}_4)_2$  and  $\text{Ni}(\text{NO}_3)_2$  with NaOH solution the entire acid liberated by hydrolysis can be determined at  $90^\circ$ . With  $\text{NiCl}_2$  and  $\text{NiSO}_4$  by NaOH titration it is possible to determine, respectively, 99% and 97% of the substance at temperatures  $< 50^\circ$ . Hydrolysis takes place incompletely.

Card 1/2

. Czechoslovakia/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61879

Abstract: Results that are too low are caused by formation of slightly soluble basic salts.

Chem. Abstrs., 1955, 49, No 2, 780.

Card 2/2

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DATA

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CUTA, F.

CUTA, F. Continuous potentiometric determination of traces of hydrogen sulfide in hydrogen by absorption in an iodine solution. In German. p. 41. Vol. 21, no. 1, Feb. 1956. SBORNIK CHEKOSLOVATSKINCH KHMICHESKIKH RABOT. COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. Praha, Czechoslovakia.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

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~~The instructions are as follows:~~

Cuta, Frantisek

CZECHOSLOVAKIA/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3522.

Author : Frantisek Cuta, Jan Pisecky.

Inst :

Title : Spectro-Photometric Study of Symmetrical Trinitrobenzene with Sodium Hydroxide.

Orig Pub: Chem. listy, 1957, 51, No 3, 433-439.

Abstract: An addition of  $\text{OH}^-$  takes place in aqueous alkaline solutions of symm-trinitrobenzene (I) with the formation of an oxy-anion of the semiquinone ["polyquinone" may be meant] (sic!) structure, which is revealed by the shift of the extinction maximum of non-dissociated I from 330 to 445 or 485  $\text{m}\mu$ . The ratio of heights of both the last maxima and the isobestic ["isobathyc" may be meant] (sic!) point at 262  $\text{m}\mu$  lead to the conclusion that in very much dilute NaOH (II) solutions, one equivalent of II is added, that an equilibrium of the anion with two equivalents

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Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3522

takes place in II solutions of concentrations above 0.15 n., and that, if the concentration was above 0.5 n., an equilibrium with three equivalents takes place. Saturation takes place at the concentration of II = 9 n. A maximum at 225  $\text{m}\mu$ , so far not described, was revealed on the extinction curve of acid aqueous solutions of I. The isobestic (sic!) point at 262  $\text{m}\mu$  was used for the computation of the first constant of I dissociation,  $K = 1.2 \pm 0.2 \cdot 10^{-14}$ . A neutral chloride discolors I completely even in dilute II solutions.

Card : 2/2

-12-

CZECHOSLOVAKIA / Physical Chemistry, Molecule. Chem- B  
ical Bond.

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 69780.

Author : Cuta, Frantisek, Eduard.

Inst : Not given.

Title : The Spectral Photometry of Trinitrobenzene Com-  
pounds With Sulfites, Sulfides and Cyanides.

Orig Pub: Chem. listy, 1957, 51, No 9, 1669 - 1676.

Abstract: The properties and structure of red colored  
adducts of a symmetrical trinitrobenzene (I)  
with sulfites (II), sulfides (III) and cyan-  
ides (IV) have been studied spectrophotomet-  
rically. The above mentioned compounds are  
similar to the adducts of I with hydroxides  
but are formed mostly at a lower pH. By a  
method of continuous variations the molar

Card 1/5

CZECHOSLOVAKIA / Physical Chemistry. Molecule Chem- B  
ical Bond.

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 69780.

Abstract: ratio of both components (in compounds of I  
with II) was established at pH~9 to be 1:1.  
This compound is formed in an alkaline medium  
above pH 7 and possesses absorption maxima at  
462 and 470 m $\mu$ . Its absorption curve at  
462 m $\mu$  versus  $SO_3^{2-}$  concentration does not obey  
the Beer Lambert Law completely. At higher con-  
centrations of  $SO_3^{2-}$  the red colored solution be-  
comes colorless. The coloration fades in light  
as a result of photochemical decomposition of  
that compound. The reaction between I and III  
proceeds similarly as with II; however, the  
coloration is stable only for a few seconds af-  
ter which time the solution acquires a perman-  
ent yellow coloration due to the presence of

Card 2/5



CZECHOSLOVAKIA / Physical Chemistry. Molecule. Chemical Bond. B

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 69780.

Abstract: ning cuvette at pH 9 has a weakly defined maximum at 440 m $\mu$ . The formation of colored compounds of I with II-IV might be explained by an addition of  $\text{SO}_3^{2-}$ ,  $\text{SH}^-$ , and  $\text{CN}^-$  to a molecule of I. The corresponding colored anions are formed only in the pH range in which the anions of II-IV are able to exist. When these anions are present in excess and their maximum quantity becomes attached, the mesomerism of the adduct disappears and the solution becomes colorless. The decomposition constant for the adduct of I with II was calculated from the concentration of colored anion  $[\text{C}_6\text{H}_3(\text{NO}_2)_3 \cdot \text{SO}_3]^{2-}$ .

Card 4/5

3

CZECHOSLOVAKIA / Physical Chemistry. Molecule. Chemical Bond.

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 69780.

Abstract: which, in its turn was determined spectrophotometrically at pH 8 with constant concentration of I and various concentrations of  $\text{SO}_3^{2-}$ . The latter were calculated from the second dissociation constant of  $\text{H}_2\text{SO}_3$ . After extrapolation of II to zero concentration its magnitude was found to be  $(1.8 \pm 0.1) \cdot 10^{-3}$ .

Card 5/5

COUNTRY :  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 23 1959, No. 82188  
 AUTHOR :  
 INST. :  
 TITLE :  
 ORIG. PUB. :  
 ABSTRACT : and the maximum of absorption of I are given.  
 cont'd OH<sup>-</sup>, 10.5-12.3, 440, 350; CN<sup>-</sup>, 8.3, 400, 300;  
 SH<sup>-</sup>, 7-10, 461, 220; SO<sub>3</sub><sup>-2</sup>, 6-8, 462-470, ---.  
 The dissociation constant  $k = (1.8 \pm 0.1) \cdot 10^{-3}$   
 at pH 8 for the reaction  $(I \cdot SO_3)^{-2} \rightarrow I + SO_3^{-2}$   
 was calculated. The sensitivity of the reac-  
 tion of I with SO<sub>3</sub><sup>-2</sup> at pH 9 constitutes 1:  
 400,000. The dissociation constant of I,  
 $(1.2 \pm 0.2) \cdot 10^{-14}$ , was determined. The absorp-  
 tion spectra of I with the above-mentioned  
 anions are given.-- S. Ioffe  
 CARD: 2/2

CZECHOSLOVAKIA/Optics - Optical Methods of Analysis

K-8

Abs Jour : Ref Zhur - Fizika, No 2, 1959, No 4556

Author : Cuta F., Pisecky J.

Inst

Title : Spectrophotometric Investigation of the Reaction sym-  
 trinitrobenzol with Sodium Oxide.

Orig Pub : Collect. czechosl. chem. commun., 1958, 23, No 4, 628-635

Abstract : No abstract

Card : 1/1

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Organic Substances.

E

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, No. 34650

3 ml of 1 N solution per halide ion). The solution was diluted with water to 25 ml. CT was then conducted by usual means at a current of 0.2 - 10 ma. The appearance of halogen excess was registered by an amperemeter, by means of a pair of Pt electrodes with the impressed voltage of 350 mv. The halide ion concentration in the solution should be  $\geq 0.01$  N. The titration of phenol (I), o-cresol (II), n-cresol (III), hydroquinone (IV), pyrocatechol (V), and resorcinol (VI) was studied. CT with chlorine gives satisfactory results only for IV in 0.12 N HCl medium (oxidation to n-quinone; consumption of 2 chlorine atoms). With other phenols, chlorine gives either non-reproducible or excessive results. CT with iodine is possible only for IV (pH 7 - 8; consumption of 2 iodine atoms, oxidation to quinone) and VI (pH 11 - 12; consumption of 6 iodine atoms,

Card 2/3

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Organic Substances.

E

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, No. 34650

triiodoresorcinol formation). Iodine does not react with I, II and III. CT with bromine is most universal and yields good results under the following conditions: I - pH  $\leq 1$ , consumption - 2 Br atoms (at pH  $\geq 2.5$ , the ratio is non-stoichiometric due to the formation of mono-, di- and tri-bromo-derivatives); II - pH  $\leq 4$  (consumption - 2 Br atoms) or pH = 7 (consumption - 6 Br atoms); III - pH = 1 (consumption - 2 Br atoms); IV - pH  $\leq 4$  (consumption - 2 Br atoms, oxidation to quinone); VI - pH = 4 - 5 (consumption - 10 Br atoms, formation of tetrabromoquinone). I, II, IV and VI may be titrated with bromine at a maximum error of -0.5 to +0.1%. The errors for titration of III are from +0.3 to 1.5%. CT conditions for V could not be properly determined. Minimal error was +4.0% (CT with bromine at pH of 0 to 6). -- J. Vanecek

Card 3/3

E - 4

CZECHOSLOVAKIA / Analytical Chemistry. Organic Analysis. E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 82047

(concentration 0.5-1 N.) or HCl (concentration 0.5-1.5 N.). (I) is determined in the first case; the sum of (I) and (II) in the second case; the content of (II) is calculated by difference. The maximum error in the determination is  $\pm 1\%$ ; the average error  $\pm 0.15-0.24\%$ , using .1 mg sample weights. -- O. Knessl

Card 2/2

38

CUTA, F

Conlometric determination of styrene and methyl oleate  
in the presence of each other. Frantisek Cota and Václav  
Klozar (Chem. Technol. Univ., Prague). *Chem. listy* 52,  
1899-1902 (1959). The method is based on Me oleate  
taking up Br 13 times faster than does styrene. The  
solvent was 85-9% HOAc conty. HBr at 0.5N. The end  
point was detd. polarometrically. The generating cathode  
was immersed in 38% HBr, sepd. from the soln. by a porous  
glass membrane. The generating current was 10 ma.  
The addn. of Cl<sub>2</sub> can be used to det. the sum of Me oleate  
and styrene, but it is too rapid to permit their discrimina-  
tion. H. Newcombe

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CUTA, F. ; JELINEK, J.

"A report on the meeting of the Central Committee of the Czechoslovak Chemical Society of the Czechoslovak Academy of Sciences, February 20, 1959." p. 460.

CHEMICKE LISTY. Praha, Czechoslovakia, Vol. 53, no. 4, Apr. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959.  
Uncl.

CUTA, Frantisek

Karel Sandera, corresponding member of the Czechoslovak Academy of Sciences; an obituary. Vestnik CSAV 68 no.5:623-627 '59.

1. Cten korespondent Ceskoslovenske akademie ved.

CUTA, Frantisek

The Czechoslovak delegation at the 8th Mendeleev Congress in Moscow.  
Vestnik CSAV 68 no.5:638-644 '59.

1. Clen korespondent Ceskoslovenske akademie ved.



CUTA, F.; VYDRA, F.

Coordination compounds of oleic and elaidic acids with palladium chloride. Coll Cz Chem 25 no.4:967-976 Ap '60. (KEAI 9:12)

1. Institut für spezielle und physikalische Methoden der analytischen Chemie, Technische Hochschule für Chemie, Prag.  
(Oleic acid) (Elaidic acid) (Palladium chlorides)

PETROVSKY, G. T.; CHUTA[Cuta], F.

Electrodes made from Na-Ba silicate glass for measurement of  $p^H$  values.  
Coll Cz Chem 26 no.9:2289-2297 '61.

1. Kafedra spetsial'nykh analiticheskikh metodov, Khimiko-tekhnologicheskii institut, Praga.

(Electrodes) (Glass) (Hydrogen-ion concentration)

- [illegible]

POLEJ, B.; POKORNY, J.; CUTA, F.

Determination of nitrites in the presence of hydroxides, carbonates, and hydrogen carbonates of alkali metals by means of acidimetric titration. Coll Cz Chem 28 no.12:3438-3442 D '63.

1. Institut für analytische Chemie, Technische Hochschule für Chemie, Prag.

CUTA, F. (Prague); YEN Chui Ju (Prague)

Coulometric titration of vanadium with iron. Rev chimie  
7 no. 1: 127-138 '62.

1. Lehrstuhl für analytische Chemie, Chemisch-technologische  
Hochschule Prag.

CUTA, F.; KARLAK, M.

Roentgenographic determination of the bond of sulphur and estimation of its content in the nickel catalyst. Coll Cz Chem 29 no.9:2152-2160 S '64.

J. Institut für analytische Chemie, Technische Hochschule für Chemie, Prague.

CUTA, F., dr.

Report on the transactions of the Preparatory Commission of  
Chemistry Teaching of the International Union of Pure and  
Applied Chemistry in London, July 11-12, 1963. Chem  
listy 58 no.1:62-64 Ja'64.

CUTA, F.

Report on transactions of the 22d Conference of International  
Union of Pure and Applied Chemistry. Chem listy 58 no.1:  
58-60 Ja'64.



CMTA, Frantisek

Corresponding member of the Czechoslovak Academy of Sciences,  
Josef Knop: obituary. Vestnik CSAV 73 no.3:513-516 '64.

1. Corresponding member of the Czechoslovak Academy of Sciences.

CZECHOSLOVAKIA

CUTA, F; HRDY, O.

1. Technical Institute of Chemistry (Prague); State  
Institute of Drug Control (Prague)

Prague, Collection of Czechoslovak Chemical Communications,  
No 10, 1965, pp 3263-3270

"Spectrophotometric Examination of the Reactions of Nitramin  
with Hydroxides and Sulfites."

MATOUSEK, J.; CUTA, J.; SREFL, J.

Alleles of the B, C, FV, M and SU blood group systems of Bohemian brindled cattle. Folia biol. 7 no.6:390-394 '61.

1. Czechoslovak Academy of Agricultural Sciences, Laboratory for  
the Biology of Livestock Reproduction, Libeňov.  
(BLOOD GROUPS veterinary) (CATTLE blood)

62111

Determination of sulfates in drinking and surface waters.  
Jan Čerň and Jarmila Hanzlová (Ústav hyg., Prague).  
Časopis hyg. epidemiol. mikrobiol. 4, 101-6  
(1955).—Methods volumetric methods with complexon III  
and Th(NO<sub>3</sub>)<sub>4</sub> are described and compared with the gravi-  
metric detn. 11 references. L. J. Eubank.

The pollution of residential atmosphere with sulfur dioxide. K. Eber, J. Gera, J. Sachs, and A. Matkova. *Trudy Vsesoyuznogo Nauchno-Issledovatskogo Instituta Atmosfery*, Moscow, 1974, 10, 1974, p. 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Determination of the pollution of the atmosphere by sul-  
fur dioxide. K. Fiser, J. Cuta, J. Sech, and A. Blahova  
(Czech Rep., Prague) *Chemosphere*, 1975, 14, 215-216. A modified control procedure  
is described, based on the method of Ure and Dagg. (C.A.B. 379), the novel feature of which is a floater mechanism  
for continuous taking in of large samples of gas and for the  
measurement of chemical gas mixtures. L. J. Urbanc

*Cuta, J.*

CZECHOSLOVAKIA/Safety Engineering. Sanitation Engineering.  
Sanitation.

L

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10733

Author : Fiser, K., Cuta, J., Sach, J., and Blazkova, A.

Inst : Not given

Title : A Test Station for the Testing of Methods for Determining the Pollution of the Air

Orig Pub: Ceskosl. hyg., epidemiol., mikrobiol., imunol., 1955,  
Vol 4, No 5, 245-248 (in Czech with summaries in English  
and Russian)

Abstract: The organization and work of a test station (TS) for the testing of methods for the determination of small concentrations of gases in the atmosphere are described. The TS is a modification of the station proposed by Uron and Boggs (Anal. Chem., 1951, Vol23, 1517). The gas to be tested is introduced continuously into a stream of air or nitrogen. The functioning of the TS has been checked

Card 1/2

CZECHOSLOVAKIA/Safety Engineering. Sanitation Engineering. L  
Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10733

Abstract: with SO<sub>2</sub>. The SO<sub>2</sub> absorbed in the scrubbers was determined iodometrically, colorimetrically, and by polarographic methods. Tables are given showing the concentration of SO<sub>2</sub> in the gas-air mixture and in the absorbing liquid. Complete absorption is achieved in the micro-absorbers at flow rates of 2-6 liters/min and in the "impindzhers", at flow rates of 2-3 liters/min.

Card 2/2



CZECHOSLOVAKIA/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 28, 1958, 77097.

Author : Cuta J., Vorderwinklerova H.

Inst :

Title : Marsh Gas Analysis as Indicator of Activity of  
Sediments in the Zálivca River Valley. I. Methods  
and Results of Qualitative Analysis.

Orig Pub: Ceskosl. hyg., 1957, 2, No 7, 417-425.

Abstract: The method of determination of marsh gas components by absorption and chromatographic separation was tried in practice and found applicable under field conditions. The marsh gas analysis can serve as an indicator for the qualitative assessment of sediments. G. Vorob'yev.

Card : 1/1

*Cuta, J.*

CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Inorganic Chemistry.

E

Abs Jour: Ref Zhur-Khin., No 9, 1959, 31040.

Author : Hanušová, J., Cuta, J.

Inst :

Title : Determination of Extractable Sulfur in Water and in Sediments.

Orig Pub: Ceskosl. hyg., 1958, 3, No 5, 281-285.

Abstract: This article describes a method based on transferring S into  $\text{SCH}_3^-$  and on the subsequent photometric evaluation of the solution of rhodanide complex  $\text{Fe}(3+)$ . To 50-250 ml of the water undergoing analysis the following are added: 2 ml of saturated solution of  $\text{HgCl}_2$  (to cancel the effect of  $\text{S}^{2-}$ ) and a definite volume of petroleum ether. The whole is

Card : 1/3

CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khin., No 9, 1959, 31040.

shaken twice, 1 minute each time and then set out to stand for 10 minutes. To 5 ml of organic layer one adds 15 ml of the solution of  $\text{NaCN}$  in water-acetone mixture (0.1 g of  $\text{NaCN}$  in 100 ml) and in 2 minutes it is diluted with the same mixture to 25 ml. 12.5 ml of the solution of  $\text{FeCl}_3$  (0.4 g of  $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$  are dissolved in 100 ml of the water-acetone mixture) are added to 12.5 ml of the resulting solution which is then evaluated photometrically at 540 m in a 2.2 cm vessel using the solution of the control experiment for comparison. The calibration graph constructed for  $\leq 50 \text{ mg/l}$  of S (or  $\leq 125 \text{ s}$ ) has a curvilinear character. In analyzing the sediment the sample (2-5 g) is suspended in 50 ml of water, then 0.5 g of  $\text{HgCl}_2$

Card : 2/3

104

HANUSOVA, J.; CUTA, J.

Hygienic problems of detergents. II. Nephelometric estimation of non-ionic saponates by means of iodomercurate. Cesk. hyg. 8 no. 9:523-526 0 '63.

1. Ustav hygieny, Praha.

CZECHOSLOVAKIA

HANUSOVA, J; CUTA, J.

Institute of Hygiene (Ustav hygieny), Prague (for both)

Prague, Ceskoslovenska hygiena, No 9, 1963, pp 523-526

"Problems of Detergents in Hygiene. II. Nephelometric  
Estimation of Non-Ionic Saponates by means of Iodo-  
mercurate."

CZECHOSLOVAKIA

HAVLIR, B; CUTA, J.

Institute of Hygiene (Ustav hygieny), Prague (for both)  
Prague, Ceskoslovenska Hygiena, No 8, 1964, pp 517-528

"Hygienic Problems of Detergents. V. The Effect of  
Saponates on Selected Phytoplankton Species."

CZECHOSLOVAKIA

CUTA, J; HANUSOVA, J.

Institute of Hygiene (Ustav hygieny), Prague (for both)  
Prague, Ceskoslovenska Hygiena, No 8, 1964, pp 507-516

"Hygienic Problems of Detergents. IV. The Biochemical  
Oxidation of Anionic and Non-Ionic Saponates."

GUTA, Cestmir

Advanced technique in storing. Pod org 17 no.5:212-216 My '63.

1. Ceskomoravska-Kolben-Danek Dukla, Praha.

GUTCUDACHE, C., dr.; GORUN, V., dr.; COSTESCU, M., dr.; VORONCA, G.,  
biolog

Considerations on the use of thromboelastography in clinical  
medicine. Med. intern. 15 no.10:1265-1274 '63.

1. Lucrare efectuata in Spitalul clinic "Fundeni".  
(BLOOD COAGULATION DISORDERS)  
(THROMBOELASTOGRAPHY) (PHARMACOLOGY)  
(THROMBOPENIA) (ANTICOAGULANTS)  
(ANEMIA, SPLENIC) (HEMOPHILIA)  
(LIVER CIRRHOSIS)

MAMBET, E.; CUTE, E.; WEINER, I.

Studies on the purification of residual waters from the  
textile industry. Studii prot epur apelor 4:307-332 '63.



STANESCU, S.; VIRCOL, A.; BIRTU, E.; TETEL, E.; VIRCOL, L.; MARCULESCU, I.;  
CUTE, E.; AVADANEI, A.; BURCIU, O.; CIBANU, S.; ILIE, E.; MOTEA, I.

Hydrographic basin of the Mures River; a hydrologic monograph.  
Studii hidrol 6:3-273 '63.

VAICUM, L., candidat in stiinte chimice; CUTE, E.; GODEANU, S.

Preliminary laboratory research on biological purification of  
reed pulp factory waste waters. Studii prot epur apelor 5:113-  
160 '64.

VAICUM, L., candidat in stiinta chimice; CUTE, E.

Preliminary physicochemical research on sulfuric acid and super-phosphate factory waste waters discharged into the Black Sea.  
Studii prot epur apelor 5:95-112 '64.

ANTONIU, R.; MIHAIL, M.; VAICUM, L.; MURGOCI, C.; GUTE, E.; HINCU, S.; BUSNITA, Th.; TALAU, V.; ARDELEANU, I.; RUSU-PANDELESCU, M.; PARASCHIVESCU, A.

Studies on the possibility of improving the sanitary conditions of the lakes surrounding Bucharest. Studii prot epur apelor 5:263-332 '64.

PAUNESCU, M., ing.; CUTEANU, E., ing.

New vibrator used in pile and plank pile thrusting operations.  
Rev constr si mat constr 15 no. 8:404-411 Ag'63.

1. Institutul Politehnic Timisoara.

MAIOR, Nicolae, ing.; PAUNESCU, Marin, ing.; CUTEANU, Eugen, ing.;  
VARGA, Ladislau, ing.

Compacting sandy soils by vibrations. Rev transport 10 no.10:  
470-475 0 '63.

CURTEANU, G., dr.; BOZSODI, I., dr.; TAUTU, M., dr.; SPINEANU, V., dr.

Considerations on some clinical and radiological aspects of congenital dislocation of the hip in infants. *Pediatrics* (Bucur.) 14 no.3:251-260 My-Je '65.

1. Lucrare efectuata in Partea clinica, Spitalul unificat de copii, Oradea (director: dr. L. Kende) (for Curteanu, Bozsodi, Boeru, Tautu). 2. Lucrare efectuata in Partea radiologica, Spitalul unificat de copii, Oradea (director: dr. L. Kende) (for Spineanu).

CUTIERU, Natalia, ing.

Orthophasic loudspeaker, a new achievement of the world technique.  
Telecommunicatii 7 no.3:125-130 My-Je '63.



L 1206-66

ACCESSION NR: AP5025836

RU/0005/65/000/005/0180/0183

AUTHOR: Cutleru, Natalia (Engineer)

TITLE: New types of loudspeakers manufactured by the "Electronica" works

SOURCE: Telecommunicatii, no. 5, 1965, 180-183

TOPIC TAGS: amplifying equipment, radio equipment, electronic component

ABSTRACT: A brief description of two new types of loudspeakers, for which the design is described and technical specifications are given. The two models are the E2, a 3-volt-ampere electrodynamic loudspeaker with permanent magnet and elliptical shape, and the C3, a 1.5-volt-ampere circular extra-flat electrodynamic loudspeaker designed principally for use in transistor radios. Orig. art. has: 4 figures and 1 graph.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NR REF SOV: 000

OTHER: 000

JPRS

Card 1/1 *mlb*

BANCILA, M., ing.; CUTIBESCU, Tr., ing.

Introducing roll buffers in polishing machines with horizontal band.  
Ind lemnuului 14 no.5:190-192 My '63.

I 30153-66

ACC NR: AP6020328

SOURCE CODE: RU/0012/65/061/001/0037/0040

AUTHOR: Vasiliad, M. (Doctor; Lieutenant colonel); Popescu, P. (Doctor; Lieutenant colonel); Cutoiu, Rodica (Doctor); Popa, V. (Doctor; Major); Budac, A. (Doctor; Captain) 10  
B

ORG: none

TITLE: Problems of anesthesia and functional re-balancing in gynecological emergencies.  
The hemorrhagic syndrome

SOURCE: Revista sanitara militara, v. 61, no. 1, 1965, 37-40

TOPIC TAGS: genitourinary system, military medicine

ABSTRACT: An analysis of 70 cases of various types of hemorrhages of genital origin treated during the years 1962-1963 in the gynecological section of the Central Military Hospital. The cases were classified as: 4 cases of peritoneal inundation of cataclysmic form, 15 cases of peritoneal inundation with a decompensated state of shock, 22 cases of peritoneal inundation with a compensated state of shock, and 29 cases of circumscribed hemorrhage. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 006  
SOV REF: 001

Card 1/1 *TM*

GUTOWSKI, J., inz.

Hydraulic transmission of the SM25 combustion locomotive.  
Przełk kolej mechan 13 no.5:132-135 My '61.

RUMANIA/Chemical Technology. Caoutchouc, Natural and Synthetic. H  
Rubber.

Abs Jour: Ref Zhur-Khin., No 24, 1958, 83666.

Author : Cutudi S.

Inst :

Title : Problem of Decreasing the Consumption of Natural  
Caoutchouc.

Orig Pub: II-a Consf. tehn.-stiint a ind. usoare. Piele.-cauciuc.-  
stiela. (Bucuresti). ASIT, 1957, 135-139.

Abstract: Technical and economical aspects of growth in the  
production of SC. (Synthetic Caoutchouc) are dis-  
cussed.

Card : 1/1

RUMANIA / Chemical Technology. Chemical Products and H-31  
Their Application. Caoutchouc. Natural and  
Synthetic Rubber.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 3123.

Author : Cutudi Sp., Rasidescu, St.

Inst : Not given.

Title : New Types of Synthetic Rubber.

Orig Pub: II-a Consf. tehn.-stiint. a ind. usoare. Piele.-  
Cauciuc.-Stiola. [Bucuresti], ASIT, 1957,  
168-171.

Abstract: A review with eleven references. -- G. Markus.

Card 1/1

CUTUDI, S.

"Additions to the problem of plastifying the butadiene-styrene elastomers."

p. 64 (Industria Usoara) Vol. 4, no. 2, Feb. 1957  
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

CUTUDI, Spiridon, ing.; HERTIA, Rodica, ing.

Use of Rumanian synthetic rubber for manufacturing black lacquered shoes. Industria usoara 12 no.2:72-75 F '65.

1. "Cauciucul Quadrat" Enterprise.



CUTURILLO, S.

"Does the Mass Appearance of Caterpillars Occur?", P. 56, (POLJOPRIVREDA, Vol. 2, No. 3, March 1954, Belgrade, Yugoslavia)

SO: Monthly List of East European Accessions (FEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

GUTURILLO, S.  
Mycology May 1954

1/2 (2)  
GUTURILLO (S.). Stetotina i bolesti biljaka na teritoriji NR Srbije u 1951 godini.  
[Plant pests and diseases in the territory of NR of Serbia in 1951.]—*Zash. Bilja* [Plant Prot., Beograd], 1952, 11, pp. 21-42, 1952. [English summary.]

Among the diseases observed in Serbia, Yugoslavia, during the 1951 survey [cf. *R.A.M.*, 30, p. 507] conducted by the Phytosanitary Service were: potato blight (*Phytophthora infestans*) [31, p. 349], which caused 60 and 30 per cent. loss in Vojvodina and Čačak, respectively; potato early blight (*Alternaria solani*) [C.M.I. map No. 89]; beet yellows virus [No. 261] and *Rhizoctonia violacea* [*Helicobasidium purpureum*; cf. *R.A.M.*, 31, p. 416] on sugar beet near Beograd, the former also near Jasenice and the latter at Vrbas; tobacco black shank (*Phytophthora* [parasitica var.] *nicotianae*) found in nurseries and in the field; tobacco ring spot virus [C.M.I. map No. 144] on tobacco; *Ascochyta pisi* on peas [No. 273]; *Peronospora spinaciae* [*P. effusa*; cf. *R.A.M.*, 8, p. 626; 19, p. 62], causing serious damage on spinach at Kragujevac; *Pseudoperonospora cubensis* [C.M.I. map No. 295] on cantaloupe, cucumber, and pumpkin in Banat, Beograd, and the Župsko-kopaonički district; bean [*Phaseolus vulgaris*] anthracnose (*Colletotrichum lindemuthianum*) [No. 177]; broad bean rust (*Uromyces fabae*) [No. 200; *R.A.M.*, 29, p. 5], responsible for serious losses; cabbage black rot (*Bacterium* [*Xanthomonas*] *campestris*) [C.M.I. map No. 136]; lettuce downy mildew (*Bremia lactucae*) [No. 86]; *Pythium debaryanum* [No. 208] causing damping-off damage in nurseries; cherry witches' broom (*Taphrina cerasi*) [No. 199] at and round Čačak; walnut

2/2 Cuturilo, S.

bacterial blight (*Bacterium* [*Xanthomonas*] *juglandis*) [No. 133], which was fairly widespread, appearing in epiphytotic form at Zrenjanin; and *Sorosporium reilianum* [*Sphaelotheca reiliana*: No. 69] on maize in Vojvodina. The most serious diseases were plum rust (*Puccinia pruni-spinosae*), which diminished yields by about 20 per cent., leaf spot (*Cercospora beticola*) [cf. *R.A.M.*, 33, p. 195], which destroyed 50 per cent. of sugar beet leaves, plum pox [cherry mottle leaf virus: see below, p. 304], responsible for loss of production of 10,000,000 plum trees, and vine powdery and downy mildews (*Uncinula necator* and *Plasmopara viticola*), the former destroying up to 90 per cent. of the fruits in some places and the latter reducing the vintage by 20 per cent.

CUTURILO, S.

How the cadre of experts for plant protection was and is organized. p. 9.  
POLJOPRIVREDA, Beograd, Vol. 2, no. 11, Nov. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

Country : YUGOSLAVIA  
Category : Weeds and Weed Control. N  
Abs Jour : RZhBiol., No 6, 1959, No 25157  
Author : Cuturilo, S.  
Inst : Institute for the Protection of Plants,  
Belgrade.  
Title : Mountain Juniper, Its Distribution and Its  
Destruction by Herbicides.  
Orig Pub : Zashtita bilya, 1956, No. 38, 33-41

Abstract : The mountain juniper, *Juniperus nana* Willd., is widespread along the mountain pastures of Yugoslavia, sometimes occupying up to 80 percent of their area. In July 1955, the author conducted experiments with the application of herbicides on a pasture, 20 percent of which was taken up by the juniper. Six preparations, containing 2,4-D and 2,4,5-T as

Card : 1/3

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000509

Country : YUGOSLAVIA  
Category : Weeds and Weed Control. N  
Abs Jour : RZhBiol., No 6, 1959, No.25157  
Author :  
Inst :  
Title :  
Orig Pub :

Abstract : active components, were used. Towards the end of the year, 3 counts of the effectiveness of action of the herbicides were conducted. The juniper was damaged by all herbicides; however, the best results were obtained on sections which had been treated with a 1-3 percent solution of 2,4,5-T butylether. The plave of of the destroyed bush was taken up by pasture

Card : 2/3

GLIGORE, V., conf.; DUTU, Al., dr.; ARMEANU, V., dr.; RUSSE, M., dr.;  
OUTUSI, C., dr.

Contributions to the study of severe blood eosinophilia.  
Med. intern., Bucur 12 no.7:1053-1060 J1 '60.  
(HAY FEVER, diagnosis)

CUTVARIC, Emilijan, inz.

Auxiliary materials in industrial production. Tehnicki pregled  
14 no.5:186-187. '62.

L 38324-66

ACC NR:AP6028006

SOURCE CODE: CZ/0042/65/000/009/0564/0567

AUTHOR: Horvath, P.; Cutz, M.

23

ORG: none

B

TITLE: Graphical-calculation method of determining the conditions of a differential amplifier with negative feedback

SOURCE: Elektrotechnicky casopis, no. 9, 1965, 564-567

TOPIC TAGS: negative feedback, feedback amplifier, amplifier design

ABSTRACT: The article presents a procedure for determining the conditions of a differential amplifier with negative feedback (connection with pentodes with a constant sum of the cathode currents). It gives a schematic diagram, derives formulas and presents two examples of the calculations, with diagrams. Orig. art. has 3 figures and 18 formulas. [JPRS: 34,691]

SUB CODE: 09/SUBM DATE: none/ORIG REF: 002



CUTZUDI, S.

Rumanian furnace soot and its use for the manufacture of technical articles and consumer goods. p.54.

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